BLACKHAWK SCHOOL DISTRICT

CURRICULUM

Course Title: 7th Grade CATS
Grade Level(s): Grade 7
Length of Period: 45 minutes
Length of Course: 7 weeks – 35 Days
Faculty Author(s): Darlene Martin
Date: February 2013

COURSE DESCRIPTION: The 7th Grade CATS program is a graded course which will review and introduce the 7th grade students to computer productivity, programming software and on-line Web 2.0 tools available.

PA Standard	Description
15.4.8.A	Analyze the influence of emerging technologies on daily life.
15.4.8.B	Interpret and apply appropriate social, legal, ethical, and safe behaviors of digital citizenship.
15.4.8.C	Compare and contrast peripheral devices of computing systems for specific needs.
15.4.8.D	Create projects using emerging input technologies.
15.4.8.E	Explain the different operating systems
15.4.8.F	Identify network communication technologies
15.4.8.G	Create an advanced digital project using appropriate software/application for an authentic task.
15.4.8.H	Explain difference between a scripting language and a coding language
15.4.8.I	Solve a problem with an algorithm
15.4.8.J	Explain the basic difference between encoding and decoding
15.4.8.K	Create a multimedia project using student-created digital media.
15.4.8.L	Evaluate the accuracy and bias of online sources of information; appropriately cite online resources
15.4.8.M	Explore and describe how emerging technologies are used across different career paths

Class Resources
Microsoft Office 2013 - Word, Excel and PowerPoint, Alice 2.0, Various Web 2.0 resources and I-pads

Course Topic	Proposed Time	Topic Reflection
Microsoft Word, PowerPoint	**5 Days**	
▪ Review skills taught in order to be proficient with Word and PowerPoint from 6th grade.		**As a review, students will type a small two page document in Word with cited sources.** **As a review, students will create a PowerPoint presentation that includes hyperlinks and action buttons.**

Course Topic	Proposed Time	Topic Reflection
Microsoft Excel	**7 Days**	**Simple Adjacent Formula Files: Bowling, Café**
▪ Understand spreadsheet terminology ▪ Understand how to create a small formula ▪ Understand how to create a formula with non-adjacent cells ▪ Understand how to create a chart ▪ Understand how to apply borders/shading ▪ Understand how to create a function ▪ Understand other functions such as average, maximum, minimum and count. ▪ Understand how to sort data		**Non-Adjacent Formula Files: Wendy's** **Using =sum(feature if adjacent: Lunch** **Graphing/Charting: Bowling, Café, Lunch, Survey w/in Edmodo** **Creating a SS from a Chart, Grade Distribution** **Using Grocery Circular to compute price per pound of fruit** **Price of Play tickets and profit** **Annual Pay Increases – Percentages** **Fast Food File – Internet Research/Fats/Calories/Carbs** **Car Prices – Internet Research/Breakdown of Costs** **Unexpected Expenses Exercise – Creating a Bank Account** **Sorting Data – Address List,**

Course Topic	Proposed Time	Topic Reflection
Alice 2.0 – 3D Computer Animation Programming Language	**13 Days**	**Cover Chapters 1-3 in Alice 2.0 book**
▪ Understand terminology related to this programming language ▪ Understand how to add and manipulate objects within the program ▪ Understand how to drag and drop tiles in order to apply lines of code in the program ▪ Understand how to make changes to lines of code ▪ Understand how to create an HTML file in order to print ▪ Understand how to organize your lines of codes within methods		

Course Topic	Proposed Time	Topic Reflection
Cyber bullying/Internet Safety	**4 Days**	**Common Sense Unit #2 topics include:**
▪ **Review with students Internet Safety and Cyber bullying rules using Common Sense Media lessons**		**My Media** **A Creator's Responsibilities** **Safe Online Talk** **Which Me Should I be?** **Gender Stereotypes Online**

Course Topic	Proposed Time	Topic Reflection
Web 2.0 tools	**4 Days**	**Wiki – students will create projects and post them to the wiki**
▪ **Students will use several Web 2.0 resources to create projects.** ▪ **Careers with Mrs. Engle**		**ToonDon - comic strip animation** **TripWOW – create a visual presentation** **Use TimeToast to create a timeline project** **Use Voki to discuss computer people from history** **Use Xtranormal to create an animation** **Use an on-line program to take a career interest survey and discuss career paths.**

Course Topic	Proposed Time	Topic Reflection
I-Pads	**2 Days**	**Doink – animation app**
• **Review I-pad use** • **Use various apps on the I-pad**		